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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,502	03/23/2004	Marian Rudolf	I-2-0494.1US	2766
24374	7590	12/05/2008	EXAMINER	
VOLPE AND KOENIG, P.C. DEPT. ICC UNITED PLAZA, SUITE 1600 30 SOUTH 17TH STREET PHILADELPHIA, PA 19103			PEREZ, JULIO R	
			ART UNIT	PAPER NUMBER
			2617	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/806,502	RUDOLF ET AL.	
	Examiner	Art Unit	
	JULIO R. PEREZ	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 14 August 2008.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 19-50 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 19-50 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____. | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 19, 21, 22, 24, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (US 20030114181A1) in view Cha et al. (US 20040090934A1).

Regarding claims 19, 22, Lee discloses providing high speed downlink packet access (HSDPA) services (pars. 30-31) comprising: receiving at least one control signal indicating at least one maximum allowed HSDPA transmit power level, wherein the HSDPA transmit power level of each allocated timeslot is not allowed to exceed a maximum allowed HSDPA transmit power level indicated for the allocated timeslot (pars. 30-31; 71, 78-82 , teach the RNC determining radio power offset value of a shared control channel for HS-DSCH transmitted to base station, thus reads, at least on receiving control signal with indicating power value or level of HSDPA).

What Lee does not explicitly disclose is transmitting at least one feedback signal indicating the results of measurements of the power of at least one of the allocated timeslots during a predetermined time period.

Cha provides measurements and a status signal transmitted from the base station to indicate utilization of resources (par. 19; par. 25, lines 5-13).

It would have obvious to one of skilled in the art at the time of the invention to modify Lee, such that transmitting at least one feedback signal indicating the results of measurements of the power of at least one of the allocated timeslots during a predetermined time period, in order to obtain accuracy in power control configuration and provide efficiency in transmission within the system.

Regarding claims 21, 24, the combination discloses claim 19 wherein the control signal limits the allowed HSDPA transmit power level to ensure that there is sufficient power reserved for non-HSDPA services (Cha, par. 27).

5. Claims 25, 27, 29, 30, 32, 34, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee and Cha in view of Malkamaki (US 20040097253A1) and further in view of Wiberg et al. (US 20030210660).

Regarding claims 25, 30, Lee discloses providing high speed downlink packet access (HSDPA) services, the method comprising: receiving at least one control signal indicating at least one maximum allowed HSDPA transmit power level (pars. 30-31; 71, 78-82, the transmit power distribution of the base station's transmit power is determined for the services offered).

What Lee does not explicitly disclose transmitting at least one feedback signal indicating the results of measurements of the power of at least one of the allocated power during a predetermined time period.

Cha provides measurements and a status signal transmitted from the base station to indicate utilization of resources (par. 19; par. 25, lines 5-13).

It would have obvious to one of skilled in the art at the time of the invention to modify Lee, such that transmitting at least one feedback signal indicating the results of measurements of the power of at least one of the allocated timeslots during a predetermined time period, in order to obtain accuracy in power control configuration and provide efficiency in transmission within the system.

The combination of Lee and Cha does not specifically disclose is that the method in the multi-cell communication system is established within a frequency division duplex cell having sets of transmission timing intervals. However, Malkamaki teaches these limitations (pars. 39, 41, 61, 67, 71).

At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify Lee and Cha to include Malkamaki, as it is known to implement wireless communication systems with FDD mode and TTIs to define periods for data transportation between the user equipment and base stations.

The combination in view of Malkamaki does not explicitly disclose a signal indicating different maximum allowed transmit power values for different timeslots.

However, Wiberg teaches power control transmission using total power allocated for all channels (par. 12, lines 11-17; par. 21; par. 40, lines 11-21; par. 41).

It would have been obvious to one skilled in the art at the time of the invention to modify the combination and Malkamaki, such that providing the maximum amount of power to timeslot on the cell, to provide proper allocation for optimal performance of the channel and avoid wasting resources.

Regarding claims 27, 32, the combination discloses claim 25 wherein at least one set of the allocated TTIs are included in a frequency division duplex (FDD) cell frame (Malkamaki, pars. 61, 67, 71).

Regarding claims 29, 34, the combination discloses claim 25 wherein the control signal limits the allowed HSDPA transmit power level to ensure that there is sufficient power reserved for non-HSDPA services (Cha, par. 27).

6. Claims 35, 37, 38, 40, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (US 20030114181A1) in view Cha et al. (US 20040090934A1).

Regarding claims 35, 38, Lee discloses providing high speed downlink packet access services, receiving at least one control signal indicating at least one maximum allowed HSDPA transmit power level, wherein the HSDPA transmit power level of each allocated timeslot is not allowed to exceed a maximum allowed HSDPA transmit power level indicated for the allocated timeslot (pars. 30-31; 71, 78-82 , teach the RNC determining radio power offset value of a shared control channel for HS-DSCH transmitted to base station, thus reads, at least on receiving control signal with indicating power value or level of HSDPA).

What Lee does not explicitly disclose is transmitting at least one feedback signal indicating the results of measurements of the power of at least one of the allocated timeslots during a predetermined time period.

Cha provides measurements and a status signal transmitted from the base station to indicate utilization of resources (par. 19; par. 25, lines 5-13).

It would have obvious to one of skilled in the art at the time of the invention to modify Lee, such that transmitting at least one feedback signal indicating the results of measurements of the power of at least one of the allocated timeslots during a predetermined time period, in order to obtain accuracy in power control configuration and provide efficiency in transmission within the system.

Regarding claims 37, 40, the combination discloses claim 35 wherein the control signal limits the allowed HSDPA transmit power level to ensure that there is sufficient power reserved for non-HSDPA services (Cha, par. 27).

7. Claims 41, 43, 45, 46, 48, 50, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee and Cha further in view of Malkamaki (US 20040097253A1) and Wiberg et al. (US 20030210660).

Regarding claims 41, 46, Lee discloses providing high speed downlink packet access (HSDPA) services, the method comprising: receiving at least one control signal indicating at least one maximum allowed HSDPA transmit power level (pars. 30-31; 71, 78-82 , teach the RNC determining radio power offset value of a shared control channel for HS-DSCH transmitted to base station, thus reads, at least on receiving control signal with indicating power value or level of HSDPA).

What Lee does not explicitly disclose is transmitting at least one feedback signal indicating the results of measurements of the power of at least one of the allocated power during a predetermined time period.

Cha provides measurements and a status signal transmitted from the base station to indicate utilization of resources (par. 19; par. 25, lines 5-13).

It would have obvious to one of skilled in the art at the time of the invention to modify Lee, such that transmitting at least one feedback signal indicating the results of measurements of the power of at least one of the allocated timeslots during a predetermined time period, in order to obtain accuracy in power control configuration and provide efficiency in transmission within the system.

The combination of Lee and Cha does not specifically disclose is that the method in the multi-cell communication system is established within a frequency division duplex cell having sets of transmission timing intervals. However, Malkamaki teaches these limitations (pars. 39, 41, 61, 67, 71).

At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify Lee and Cha to include Malkamaki, as it is known to implement wireless communication systems with FDD mode and TTIs to define periods for data transportation between the user equipment and base stations.

With further regard to claim 41, Cha discloses a RNC and a plurality of base stations in communications with the RNC (Figure 1, #'s 20a-20c, 22a-22b).

Lee and Cha in view of Malkamaki does not explicitly disclose a signal indicating different maximum allowed transmit power values for different timeslots.

Wiberg teaches power control transmission using total power allocated for all channels (par. 12, lines 11-17; par. 21; par. 40, lines 11-21; par. 41).

It would have been obvious to one skilled in the art at the time of the invention to modify the combination of Lee and Cha and Malkamaki, such that providing the maximum amount of power to timeslot on the cell, to provide proper allocation for optimal performance of the channel and avoid wasting resources.

Regarding claims 43, 48, the combination discloses claim 41 wherein at least one set of the allocated TTIs are included in a frequency division duplex (FDD) cell frame (Malkamaki, pars. 61, 67, 71).

Regarding claims 45, 50, the combination discloses claim 41 wherein the control signal limits the allowed HSDPA transmit power level to ensure that there is sufficient power reserved for non-HSDPA services (Cha, par. 27).

8. Claims 20, 23, 26, 31, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee and Cha further in view of Wang et al. (US 20050117553A1).

Regarding claims 20, 23, 26, 31, the combination teaches claim 19, but it is silent on wherein the predetermined time period is at least 100 ms.

Wang teaches “TDMA frame having a duration of 10 ms per timeslot and, which subdivided into fifteen time slots”, that includes at least 10 slots (i.e., 10x10 ms), (par. 42, lines 17-20), which reads on a predetermined time period of at least 100 ms.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify Cha to include Wang, as it is known to implement wireless communication systems with time periods during provision of timeslots for data transportation.

9. Claims 28, 33, 44, 49, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee and Cha further in view Mousley et al. (US 20050083977A1).

Regarding claims 28, 33, 44, 49, the combination discloses claim 27, but wherein the FDD cell frame has a length of 10 ms and each TTI has a length of 2 ms.

Mousley teaches allocation of channels with TTI of length 2 ms and frames of length of 2 ms (pars. 27, 37).

It would have been obvious to one of ordinary skill in the art to modify Cha to include Mousley, as it is known in the art that TTIs conform to 2 ms and frames with lengths of 10 ms, to identify the frame lengths for transmission.

10. Claims 36, 39, 42, 47, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee and Cha further in view of Wang et al. (US 20050117553A1).

Regarding claims 36, 39, 42, 47, the combination discloses claim 35, but wherein the predetermined time period is at least 100 ms.

Wang teaches “TDMA frame having a duration of 10 ms per timeslot and, which subdivided into fifteen time slots”, that includes at least 10 slots (i.e., 10x10 ms), (par. 42, lines 17-20), which reads on a predetermined time period of at least 100 ms.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify Cha to include Wang, as it is known to implement wireless communication systems with time periods during provision of timeslots for data transportation.

Response to Arguments

11. Applicant's arguments with respect to claims 19-50 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JULIO R. PEREZ whose telephone number is (571)272-7846. The examiner can normally be reached on 10:30 - 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Eisen can be reached on (571) 272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. R. P./
Examiner, Art Unit 2617

12/2/08

/Alexander Eisen/
Supervisory Patent Examiner, Art Unit 2617